



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200  
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**D2893-1**  
**Job Sheet 182027**



Part No: D2893-1

Job Qty: ~~10 ea~~ **20 JW**

Part Name: Support



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 8/16/18

Job Tracking No:

Due Date: 8/24/18

Created By: Marie Lajeunesse

Type: Stock

Description:

Note: DWG REV C IPP: C 02.11.26 Reformat; Added P/O KJ IPP D 06.04.19 removed alodine EC IPP Rev:E Added priming as per Rev B 07-04-30 JLM IPP F 08.03.19 Re-format EC verified by: DD IPP Rev:G 08-05-15 add QC14 DD verified by:EC IPP Rev:H 11.08.04 as per dwg rev.C DD verf:EC

Ship Via:

### Bill of Materials

### Job Routing

| Op No | Operation              | Qty    | Start Date | Due Date | Standard  |         | Workcenter/Supplier   |              | Sign-off              |
|-------|------------------------|--------|------------|----------|-----------|---------|-----------------------|--------------|-----------------------|
|       |                        |        |            |          | Setup hrs | Run Hrs | Workcenter / Supplier | Lead Time    |                       |
| 90    | Start up Operation     | 10 Ea  | 8/24/18    | 8/24/18  | 0.00      | 0.00    | Start Up Machining-1  |              | <b>SB 2 18/09/18</b>  |
| 100   | CNC Vertical Machining | 10 pcs | 8/24/18    | 8/24/18  | 0.33      | 19.61   | HAAS1-2               |              | <b>SBL 18/09/18</b>   |
| 120   | QC                     | 10 pcs | 8/24/18    | 8/24/18  | 0.00      | 0.00    | QC8 Machining-1       |              | <b>B. 18-09-18</b>    |
| 130   | Crosstubes             | 10 pcs | 8/24/18    | 8/24/18  | 0.00      | 1.67    | Crosstubes-2          |              | <b>SEP 18 2018</b>    |
| 140   | QC                     | 10 pcs | 8/24/18    | 8/24/18  | 0.00      | 0.00    | QC3                   |              | <b>SEP 19 2018</b>    |
| 170   | Packaging              | 10 pcs | 8/24/18    | 8/24/18  | 0.00      | 0.00    | Packaging3-1          | <b>LG050</b> | <b>SEP 19 2018</b>    |
| 180   | QC21-SA                | 10 Ea  | 8/24/18    | 8/24/18  | 0.00      | 0.00    | QC21                  |              | <b>21 SEP 19 2018</b> |

Part Op 100 - 1-Machine as per Folio FA081

Descriptions: 130 - Per note 8 on page 1 of dwg D2893, Prep inner concave surface of support and apply 3M Scotch-Weld as per dwg.

170 - LOCATION : LG050

**13852 exp 4/19**

### Job BOM

| Part / Item | Component Name         | Quantity     | Operation             | Container     |
|-------------|------------------------|--------------|-----------------------|---------------|
| DSK078      | D2893-1 Turning Detail | 5 Ea (.5 ea) | 90-Start up Operation | <b>500790</b> |

### Job Allocations

| Operation             | Component Part | Required | Inventory | Allocated |
|-----------------------|----------------|----------|-----------|-----------|
| 90-Start up Operation | DSK078         | 5        | 10        | 0         |

### Part Specifications

| Spec No | Description   | Target/Tolerance | Limits             | Type           | Special Comments |
|---------|---------------|------------------|--------------------|----------------|------------------|
| 1       | 2.750 Support | 2.985Inches      | + 0.020<br>- 0.000 | 3.005<br>2.985 |                  |
| 2       | 2.750 Support | 0.440Inches      | + 0.020<br>- 0.000 | 0.460<br>0.440 |                  |
| 3       | 2.750 Support | 0.125Inches      | + 0.035<br>- 0.000 | 0.160<br>0.125 |                  |
| 4       | 2.750 Support | 0.040Inches      | + 0.020<br>- 0.000 | 0.060<br>0.040 |                  |
| 5       | 2.750 Support | 0.188Inches      |                    | 0.193          |                  |

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order update only ☐

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| Work Order: _____<br><br>Part No. _____<br><br>NCR No. _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/><br>Suspected Unapproved <input type="checkbox"/> | <b>AGAINST DEPARTMENT/PROCESS</b><br><br><table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube <input type="checkbox"/></td> <td style="border: none;">Cross tube <input type="checkbox"/></td> <td style="border: none;">Water Jet <input type="checkbox"/></td> <td style="border: none;">Engineering <input type="checkbox"/></td> </tr> <tr> <td style="border: none;">Machining <input type="checkbox"/></td> <td style="border: none;">Small Fab <input type="checkbox"/></td> <td style="border: none;">Prod. Eng. Coord. <input type="checkbox"/></td> <td style="border: none;">Quality <input type="checkbox"/></td> </tr> <tr> <td style="border: none;">Thermoforming <input type="checkbox"/></td> <td style="border: none;">Finishing <input type="checkbox"/></td> <td style="border: none;">Rec/Store/Packaging <input type="checkbox"/></td> <td style="border: none;">Other <input type="checkbox"/></td> </tr> <tr> <td style="border: none;">Large Fab <input type="checkbox"/></td> <td style="border: none;">Composite <input type="checkbox"/></td> <td style="border: none;">Supplier <input type="checkbox"/></td> <td></td> </tr> </table> |                                             |                                              |                                   | Skid-tube <input type="checkbox"/> | Cross tube <input type="checkbox"/>   | Water Jet <input type="checkbox"/>     | Engineering <input type="checkbox"/> | Machining <input type="checkbox"/>    | Small Fab <input type="checkbox"/> | Prod. Eng. Coord. <input type="checkbox"/> | Quality <input type="checkbox"/>         | Thermoforming <input type="checkbox"/>      | Finishing <input type="checkbox"/>        | Rec/Store/Packaging <input type="checkbox"/> | Other <input type="checkbox"/>   | Large Fab <input type="checkbox"/> | Composite <input type="checkbox"/>           | Supplier <input type="checkbox"/>   |                                              |                                           |                                                |                                        |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |                                     |                                        |                                     |                                             |                                                          |                                       |                                        |                                      |                                                |
| Skid-tube <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: small;">           Dart Aerospace Ltd.<br/>           1270 Aberdeen Street<br/>           Hawkesbury, ON K6A 1K7<br/>           CANADA<br/>           TEL.: 1 813 632-5200<br/>           Email: sales@dartaero.com<br/>           www.dartaerospace.com         </div> <div style="text-align: center;"> <br/> <b>Container No: S109395</b><br/> <b>Part: D2893 - 1</b><br/> <b>Job No: 182027</b><br/> <b>Serial No/Batch: S109395</b><br/>           Revision: _____<br/>           Inspector: _____<br/>           Exp Date: _____<br/>           Instructions: Various STC's         </div> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: small;">           Date: 09/12/18         </div> </div>                                                                                                                                   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| <b>Root Cause</b><br><table style="width:100%; border: none;"> <tr><td style="border: none;">Environment <input type="checkbox"/></td><td style="border: none;">No Re-verification <input type="checkbox"/></td></tr> <tr><td style="border: none;">Design <input type="checkbox"/></td><td style="border: none;">Operator <input type="checkbox"/></td></tr> <tr><td style="border: none;">Doc/Data <input type="checkbox"/></td><td style="border: none;">Offset/Setup <input type="checkbox"/></td></tr> <tr><td style="border: none;">Equip/Tooling <input type="checkbox"/></td><td style="border: none;">Supplier <input type="checkbox"/></td></tr> <tr><td style="border: none;">Handling/Pre <input type="checkbox"/></td><td style="border: none;">Training <input type="checkbox"/></td></tr> <tr><td style="border: none;">Material <input type="checkbox"/></td><td style="border: none;">Use for Testing <input type="checkbox"/></td></tr> <tr><td style="border: none;">Internal Transport <input type="checkbox"/></td><td style="border: none;">Poor Information <input type="checkbox"/></td></tr> <tr><td style="border: none;">Tribal Knowledge <input type="checkbox"/></td><td style="border: none;">Rushing <input type="checkbox"/></td></tr> <tr><td style="border: none;">LOA <input type="checkbox"/></td><td style="border: none;">Product Improvement <input type="checkbox"/></td></tr> <tr><td style="border: none;">Substation <input type="checkbox"/></td><td style="border: none;">Process Improvement <input type="checkbox"/></td></tr> <tr><td style="border: none;">Past Expiry Date <input type="checkbox"/></td><td style="border: none;">Manufacturing Process <input type="checkbox"/></td></tr> <tr><td style="border: none;">Misidentified <input type="checkbox"/></td><td style="border: none;">Past Due <input type="checkbox"/></td></tr> </table> |                                                                                                                                                                                    | Environment <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | No Re-verification <input type="checkbox"/> | Design <input type="checkbox"/>              | Operator <input type="checkbox"/> | Doc/Data <input type="checkbox"/>  | Offset/Setup <input type="checkbox"/> | Equip/Tooling <input type="checkbox"/> | Supplier <input type="checkbox"/>    | Handling/Pre <input type="checkbox"/> | Training <input type="checkbox"/>  | Material <input type="checkbox"/>          | Use for Testing <input type="checkbox"/> | Internal Transport <input type="checkbox"/> | Poor Information <input type="checkbox"/> | Tribal Knowledge <input type="checkbox"/>    | Rushing <input type="checkbox"/> | LOA <input type="checkbox"/>       | Product Improvement <input type="checkbox"/> | Substation <input type="checkbox"/> | Process Improvement <input type="checkbox"/> | Past Expiry Date <input type="checkbox"/> | Manufacturing Process <input type="checkbox"/> | Misidentified <input type="checkbox"/> | Past Due <input type="checkbox"/> | <table style="width:100%; border: none;"> <tr> <td style="border: none;">Heat Treat <input type="checkbox"/></td> <td style="border: none;">Cut Too Short <input type="checkbox"/></td> <td style="border: none;">Mislabeled <input type="checkbox"/></td> </tr> <tr> <td style="border: none;">Wave/Twist in Tube <input type="checkbox"/></td> <td style="border: none;">Instructions Incomplete/Unclear <input type="checkbox"/></td> <td style="border: none;">Fit/Function <input type="checkbox"/></td> </tr> <tr> <td style="border: none;">Marks/Chatter <input type="checkbox"/></td> <td style="border: none;">Drill Holes <input type="checkbox"/></td> <td style="border: none;">Misaligned/off center <input type="checkbox"/></td> </tr> </table> |  |  | Heat Treat <input type="checkbox"/> | Cut Too Short <input type="checkbox"/> | Mislabeled <input type="checkbox"/> | Wave/Twist in Tube <input type="checkbox"/> | Instructions Incomplete/Unclear <input type="checkbox"/> | Fit/Function <input type="checkbox"/> | Marks/Chatter <input type="checkbox"/> | Drill Holes <input type="checkbox"/> | Misaligned/off center <input type="checkbox"/> |
| Environment <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| Handling/Pre <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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                                                                                                                                                                     |                                             |                                              |                                   |                                    |                                       |                                        |                                      |                                       |                                    |                                            |                                          |                                             |                                           |                                              |                                  |                                    |                                              |                                     |                                              |                                           |                                                |                                        |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |                                     |                                        |                                     |                                             |                                                          |                                       |                                        |                                      |                                                |
| Internal Transport <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Poor Information <input type="checkbox"/>                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |                                              |                                   |                                    |                                       |                                        |                                      |                                       |                                    |                                            |                                          |                                             |                                           |                                              |                                  |                                    |                                              |                                     |                                              |                                           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                                |                                                          |                                       |                                        |                                      |                                                |
| Tribal Knowledge <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Rushing <input type="checkbox"/>                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |                                              |                                   |                                    |                                       |                                        |                                      |                                       |                                    |                                            |                                          |                                             |                                           |                                              |                                  |                                    |                                              |                                     |                                              |                                           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                                |                                                          |                                       |                                        |                                      |                                                |
| LOA <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Product Improvement <input type="checkbox"/>                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |                                              |                                   |                                    |                                       |                                        |                                      |                                       |                                    |                                            |                                          |                                             |                                           |                                              |                                  |                                    |                                              |                                     |                                              |                                           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                                |                                                          |                                       |                                        |                                      |                                                |
| Substation <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Process Improvement <input type="checkbox"/>                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |                                              |                                   |                                    |                                       |                                        |                                      |                                       |                                    |                                            |                                          |                                             |                                           |                                              |                                  |                                    |                                              |                                     |                                              |                                           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                                |                                                          |                                       |                                        |                                      |                                                |
| Past Expiry Date <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Manufacturing Process <input type="checkbox"/>                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |                                              |                                   |                                    |                                       |                                        |                                      |                                       |                                    |                                            |                                          |                                             |                                           |                                              |                                  |                                    |                                              |                                     |                                              |                                           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                                |                                                          |                                       |                                        |                                      |                                                |
| Misidentified <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Past Due <input type="checkbox"/>                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |                                              |                                   |                                    |                                       |                                        |                                      |                                       |                                    |                                            |                                          |                                             |                                           |                                              |                                  |                                    |                                              |                                     |                                              |                                           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                                |                                                          |                                       |                                        |                                      |                                                |
| Heat Treat <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Cut Too Short <input type="checkbox"/>                                                                                                                                             | Mislabeled <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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                                |                                                          |                                       |                                        |                                      |                                                |
| Wave/Twist in Tube <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Instructions Incomplete/Unclear <input type="checkbox"/>                                                                                                                           | Fit/Function <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                             |                                              |                                   |                                    |                                       |                                        |                                      |                                       |                                    |                                            |                                          |                                             |                                           |                                              |                                  |                                    |                                              |                                     |                                              |                                           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                                |                                                          |                                       |                                        |                                      |                                                |
| Marks/Chatter <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Drill Holes <input type="checkbox"/>                                                                                                                                               | Misaligned/off center <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                             |                                              |                                   |                                    |                                       |                                        |                                      |                                       |                                    |                                            |                                          |                                             |                                           |                                              |                                  |                                    |                                              |                                     |                                              |                                           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                                |                                                          |                                       |                                        |                                      |                                                |
| OTHER : _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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                                |                                                          |                                       |                                        |                                      |                                                |

|    |               |              |         |        |
|----|---------------|--------------|---------|--------|
|    |               |              | + 0.005 | 0.188  |
|    |               |              | - 0.000 |        |
| 6  | 2.750 Support | 0.125Inches  | + 0.035 | 0.160  |
|    |               |              | - 0.000 | 0.125  |
| 7  | 2.750 Support | 0.140Inches  | + 0.020 | 0.160  |
|    |               |              | - 0.000 | 0.140  |
| 8  | 2.750 Support | 1.360Inches  | + 0.040 | 1.400  |
|    |               |              | - 0.000 | 1.360  |
| 9  | 2.750 Support | 0.040Inches  | + 0.020 | 0.060  |
|    |               |              | - 0.000 | 0.040  |
| 10 | 2.750 Support | 1.190Inches  | + 0.040 | 1.230  |
|    |               |              | - 0.000 | 1.190  |
| 11 | 2.750 Support | 0.010Inches  | + 0.010 | 0.020  |
|    |               |              | - 0.000 | 0.010  |
| 12 | 2.750 Support | 0.053Inches  | + 0.020 | 0.073  |
|    |               |              | - 0.000 | 0.053  |
| 13 | 2.750 Support | 0.240Inches  | + 0.020 | 0.260  |
|    |               |              | - 0.000 | 0.240  |
| 14 | 2.750 Support | 2.518Inches  | + 0.020 | 2.538  |
|    |               |              | - 0.000 | 2.518  |
| 15 | 2.750 Support | 84.390Inches | + 6.000 | 90.390 |
|    |               |              | - 0.000 | 84.390 |
| 16 | 2.750 Support | 0.261Inches  | + 0.005 | 0.266  |
|    |               |              | - 0.000 | 0.261  |
| 17 | 2.750 Support | 0.053Inches  | + 0.020 | 0.073  |
|    |               |              | - 0.000 | 0.053  |

Plex 8/16/18 7:35 AM Dart.lajeunesse.marie



DQA: \_\_\_\_\_ Date: \_\_\_\_\_

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order update only ☐

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                 |                       |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|-----------------------|--|
| Work Order: _____<br><br>Part No. _____<br><br>NCR No. _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/><br>Suspected Unapproved <input type="checkbox"/> | <b>AGAINST DEPARTMENT/PROCESS</b><br><br><div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/><br/>           Machining <input type="checkbox"/><br/>           Thermoforming <input type="checkbox"/><br/>           Large Fab <input type="checkbox"/> </div> <div>           Cross tube <input type="checkbox"/><br/>           Small Fab <input type="checkbox"/><br/>           Finishing <input type="checkbox"/><br/>           Composite <input type="checkbox"/> </div> <div>           Water Jet <input type="checkbox"/><br/>           Prod. Eng. Coord. <input type="checkbox"/><br/>           Rec/Store/Packaging <input type="checkbox"/><br/>           Supplier <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/><br/>           Quality <input type="checkbox"/><br/>           Other <input type="checkbox"/> </div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                 |                       |  |
| Date :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Step #:                                                                                                                                                                            | QTY Effective :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                 | MRB (QSI042) Approval |  |
| Description Work Order Deviation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Disposition                                     |                       |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Completed By                                    |                       |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Lead hand / Supervisor<br>Approval Verification |                       |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | QC / QA Coordinator<br>Approval                 |                       |  |
| <b>Root Cause</b><br><div style="display: flex; justify-content: space-between;"> <div>           Environment <input type="checkbox"/><br/>           Design <input type="checkbox"/><br/>           Doc/Data <input type="checkbox"/><br/>           Equip/Tooling <input type="checkbox"/><br/>           Handling/Pre <input type="checkbox"/><br/>           Material <input type="checkbox"/><br/>           Internal Transport <input type="checkbox"/><br/>           Tribal Knowledge <input type="checkbox"/><br/>           LOA <input type="checkbox"/><br/>           Substation <input type="checkbox"/><br/>           Past Expiry Date <input type="checkbox"/><br/>           Misidentified <input type="checkbox"/> </div> <div>           No Re-verification <input type="checkbox"/><br/>           Operator <input type="checkbox"/><br/>           Offset/Setup <input type="checkbox"/><br/>           Supplier <input type="checkbox"/><br/>           Training <input type="checkbox"/><br/>           Use for Testing <input type="checkbox"/><br/>           Poor Information <input type="checkbox"/><br/>           Rushing <input type="checkbox"/><br/>           Product Improvement <input type="checkbox"/><br/>           Process Improvement <input type="checkbox"/><br/>           Manufacturing Process <input type="checkbox"/><br/>           Past Due <input type="checkbox"/> </div> </div> |                                                                                                                                                                                    | <b>FAULT CATEGORY</b><br><div style="display: flex; justify-content: space-between;"> <div>           Pressure/Forced <input type="checkbox"/><br/>           Bending <input type="checkbox"/><br/>           Centre Not Concentric <input type="checkbox"/><br/>           Cracks <input type="checkbox"/><br/>           Crimp/Kink/Ripple/Wave <input type="checkbox"/><br/>           Cuffs <input type="checkbox"/><br/>           Crushing <input type="checkbox"/><br/>           Heat Treat <input type="checkbox"/><br/>           Wave/Twist in Tube <input type="checkbox"/><br/>           Marks/Chatter <input type="checkbox"/> </div> <div>           Temperature/Cure <input type="checkbox"/><br/>           Set-up <input type="checkbox"/><br/>           BOM/Route <input type="checkbox"/><br/>           Broken/Damage/Defect <input type="checkbox"/><br/>           Inspection Incomplete/Unqualified <input type="checkbox"/><br/>           Contamination <input type="checkbox"/><br/>           Countersink <input type="checkbox"/><br/>           Cut Too Short <input type="checkbox"/><br/>           Instructions Incomplete/Unclear <input type="checkbox"/><br/>           Drill Holes <input type="checkbox"/> </div> <div>           Power Loss/Surge <input type="checkbox"/><br/>           Folio/Program <input type="checkbox"/><br/>           Grain <input type="checkbox"/><br/>           Weld <input type="checkbox"/><br/>           Wrong Stock Pulled <input type="checkbox"/><br/>           Out of Sequence <input type="checkbox"/><br/>           Off-set <input type="checkbox"/><br/>           Misabeled <input type="checkbox"/><br/>           Fit/Function <input type="checkbox"/><br/>           Misaligned/off center <input type="checkbox"/> </div> <div>           Positioned Wrong <input type="checkbox"/><br/>           Outside Dimensions <input type="checkbox"/><br/>           Over/Under tolerance <input type="checkbox"/><br/>           Part Incorrect <input type="checkbox"/><br/>           Part Lost/Missing <input type="checkbox"/><br/>           Part Moved <input type="checkbox"/><br/>           Drawing <input type="checkbox"/><br/>           Finish <input type="checkbox"/><br/>           Misread <input type="checkbox"/><br/>           Turning Sequence <input type="checkbox"/> </div> </div> |                                                 |                       |  |
| <input type="checkbox"/> OTHER : _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                 |                       |  |

|                                    |  |                             |  |
|------------------------------------|--|-----------------------------|--|
| <b>DART AEROSPACE LTD</b>          |  | <b>Work Order:</b>          |  |
| <b>Description: Ø2.750 Support</b> |  | <b>Part Number: D2893-1</b> |  |
| <b>Inspection Dwg: D2893</b>       |  | <b>Rev: C</b>               |  |
|                                    |  | <b>Page 1 of 1</b>          |  |

### FIRST ARTICLE INSPECTION DIMENSION SHEET

|               |       |       |                | Record Actual Dimensions |       |       |       |       |
|---------------|-------|-------|----------------|--------------------------|-------|-------|-------|-------|
| Dim           | Min   | Max   | Go/No Go Gauge | 1                        | 2     | 3     | 4     | 5     |
| HAAS Section  |       |       |                |                          |       |       |       |       |
| AA            | 2.985 | 3.005 |                | 2.995                    | 2.995 | 2.996 | 2.997 | 2.995 |
| AB            | 0.440 | 0.460 |                | .456                     | .458  | .455  | .455  | .455  |
| AC            | 0.125 | 0.160 |                | .158                     | .160  | .158  | .158  | .159  |
| AD            | 0.040 | 0.060 |                | .049                     | .050  | .050  | .050  | .050  |
| AE            | 0.188 | 0.193 |                | .188                     | .188  | .188  | .188  | .188  |
| AF            | 0.125 | 0.160 |                | .147                     | .140  | .148  | .140  | .140  |
| AG            | 0.140 | 0.160 |                | .153                     | .150  | .150  | .150  | .150  |
| AH            | 1.360 | 1.400 |                | 1.372                    | 1.369 | 1.371 | 1.367 | 1.368 |
| AI            | 0.040 | 0.060 |                | .053                     | .050  | .050  | .050  | .052  |
| AJ            | 1.190 | 1.230 |                | 1.213                    | 1.214 | 1.213 | 1.212 | 1.214 |
| AK            | 0.010 | 0.020 |                | .010                     | .010  | .010  | .010  | .010  |
| AL            | 0.053 | 0.073 |                | .063                     | .063  | .063  | .063  | .063  |
| AM            | 0.240 | 0.260 |                | .250                     | .250  | .250  | .250  | .250  |
| AN            | 2.518 | 2.538 |                | 2.527                    | 2.520 | 2.528 | 2.525 | 2.524 |
| AO            | 84.39 | 90.39 |                | 87.39                    | 87.39 | 87.39 | 87.39 | 87.39 |
| AP            | 0.261 | 0.266 |                | .261                     | .261  | .261  | .261  | .261  |
| AQ            | 0.053 | 0.073 |                | .063                     | .063  | .063  | .063  | .063  |
| AR            |       |       |                |                          |       |       |       |       |
| AS            |       |       |                |                          |       |       |       |       |
| AT            |       |       |                |                          |       |       |       |       |
| Accept/Reject |       |       |                |                          |       |       |       |       |

|                                   |                              |
|-----------------------------------|------------------------------|
| <b>Measured by:</b> <u>DAS 57</u> | <b>Date:</b> <u>18/09/12</u> |
| <b>Audited by:</b> <u>9-89</u>    | <b>Date:</b> <u>18-09-18</u> |
| <b>Preliminary Approval:</b>      | <b>Date:</b>                 |

| Rev | Date     | Change               | Revised by | Approved |
|-----|----------|----------------------|------------|----------|
| A   | 02.12.13 | New Issue            | KJ/RF      |          |
| B   | 07.05.08 | Dimension AP revised | KJ/JLM     |          |
| C   | 08.04.21 | Reformat             | KJ/JLM     |          |
| D   | 12.07.31 | Dwg Rev updated      | KJ         |          |



|                                    |  |                             |  |
|------------------------------------|--|-----------------------------|--|
| <b>DART AEROSPACE LTD</b>          |  | <b>Work Order:</b>          |  |
| <b>Description: Ø2.750 Support</b> |  | <b>Part Number: D2893-1</b> |  |
| <b>Inspection Dwg: D2893</b>       |  | <b>Rev: C</b>               |  |
|                                    |  | <b>Page 1 of 1</b>          |  |

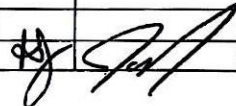
### FIRST ARTICLE INSPECTION DIMENSION SHEET

|                     |       |       |                | Record Actual Dimensions |       |       |       |       |
|---------------------|-------|-------|----------------|--------------------------|-------|-------|-------|-------|
| Dim                 | Min   | Max   | Go/No Go Gauge | 16                       | 17-18 | 19-20 | 21-22 | 23-24 |
| <b>HAAS Section</b> |       |       |                |                          |       |       |       |       |
| AA                  | 2.985 | 3.005 |                | 2.995                    | 2.995 | 2.995 | 2.996 | 2.996 |
| AB                  | 0.440 | 0.460 |                | .456                     | .456  | .455  | 0.457 | 0.457 |
| AC                  | 0.125 | 0.160 |                | .160                     | .160  | .160  | 0.158 | 0.158 |
| AD                  | 0.040 | 0.060 |                | .050                     | .050  | .050  | 0.054 | 0.054 |
| AE                  | 0.188 | 0.193 |                | .192                     | .188  | .188  | 0.188 | 0.188 |
| AF                  | 0.125 | 0.160 |                | .146                     | .147  | .145  | 0.147 | 0.142 |
| AG                  | 0.140 | 0.160 |                | .150                     | .150  | .150  | 0.153 | 0.153 |
| AH                  | 1.360 | 1.400 |                | 1.367                    | 1.368 | 1.365 | 1.371 | 1.368 |
| AI                  | 0.040 | 0.060 |                | .053                     | .053  | .053  | 0.053 | 0.053 |
| AJ                  | 1.190 | 1.230 |                | 1.203                    | 1.211 | 1.214 | 1.210 | 1.215 |
| AK                  | 0.010 | 0.020 |                | .010                     | .010  | .010  | 0.010 | 0.010 |
| AL                  | 0.053 | 0.073 |                | .063                     | .063  | .063  | 0.063 | 0.063 |
| AM                  | 0.240 | 0.260 |                | .250                     | .250  | .250  | 0.250 | 0.250 |
| AN                  | 2.518 | 2.538 |                | 2.526                    | 2.528 | 2.527 | 2.532 | 2.532 |
| AO                  | 84.39 | 90.39 |                | 87.39                    | 87.39 | 87.39 | 87.39 | 87.39 |
| AP                  | 0.261 | 0.266 |                | .261                     | .261  | .261  | .261  | 0.261 |
| AQ                  | 0.053 | 0.073 |                | .063                     | .063  | .063  | 0.063 | 0.063 |
| AR                  |       |       |                |                          |       |       |       |       |
| AS                  |       |       |                |                          |       |       |       |       |
| AT                  |       |       |                |                          |       |       |       |       |
| Accept/Reject       |       |       |                |                          |       |       |       |       |

**Measured by:**  **Date:** 18-09-13

**Audited by:**  **Date:** 18-09-18

**Preliminary Approval:**  **Date:**

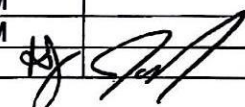
| Rev | Date     | Change               | Revised by | Approved                                                                              |
|-----|----------|----------------------|------------|---------------------------------------------------------------------------------------|
| A   | 02.12.13 | New Issue            | KJ/RF      |                                                                                       |
| B   | 07.05.08 | Dimension AP revised | KJ/JLM     |                                                                                       |
| C   | 08.04.21 | Reformat             | KJ/JLM     |                                                                                       |
| D   | 12.07.31 | Dwg Rev updated      | KJ         |  |

|                                    |               |                     |                |
|------------------------------------|---------------|---------------------|----------------|
| <b>DART AEROSPACE LTD</b>          |               | <b>Work Order:</b>  |                |
| <b>Description: Ø2.750 Support</b> |               | <b>Part Number:</b> | <b>D2893-1</b> |
| <b>Inspection Dwg: D2893</b>       | <b>Rev: C</b> | <b>Page 1 of 1</b>  |                |

### FIRST ARTICLE INSPECTION DIMENSION SHEET

|                      |       |       |                | Record Actual Dimensions |       |       |       |       |
|----------------------|-------|-------|----------------|--------------------------|-------|-------|-------|-------|
| Dim                  | Min   | Max   | Go/No Go Gauge | 111                      | 212   | 313   | 414   | 515   |
| <b>HAAS Section</b>  |       |       |                |                          |       |       |       |       |
| AA                   | 2.985 | 3.005 |                | 2.990                    | 2.990 | 2.995 | 2.995 | 2.997 |
| AB                   | 0.440 | 0.460 | ✓              | 0.455                    | 0.455 | 0.455 | 0.455 | 0.455 |
| AC                   | 0.125 | 0.160 | ✓              | 0.158                    | 0.158 | 0.160 | 0.160 | 0.160 |
| AD                   | 0.040 | 0.060 | ✓              | 0.050                    | 0.050 | 0.050 | 0.05  | 0.043 |
| AE                   | 0.188 | 0.193 | ✓              | 0.188                    | 0.188 | 0.188 | 0.188 | 0.188 |
| AF                   | 0.125 | 0.160 | ✓              | 0.150                    | 0.150 | 0.144 | 0.144 | 0.144 |
| AG                   | 0.140 | 0.160 |                | 0.150                    | 0.150 | 0.150 | 0.150 | 0.150 |
| AH                   | 1.360 | 1.400 |                | 1.377                    | 1.377 | 1.367 | 1.370 | 1.371 |
| AI                   | 0.040 | 0.060 |                | 0.050                    | 0.048 | 0.049 | 0.049 | 0.050 |
| AJ                   | 1.190 | 1.230 |                | 1.213                    | 1.213 | 1.210 | 1.217 | 1.213 |
| AK                   | 0.010 | 0.020 | ✓              | 0.010                    | 0.010 | 0.010 | 0.010 | 0.010 |
| AL                   | 0.053 | 0.073 | ✓              | 0.063                    | 0.063 | 0.063 | 0.063 | 0.063 |
| AM                   | 0.240 | 0.260 | ✓              | 0.250                    | 0.250 | 0.250 | 0.250 | 0.250 |
| AN                   | 2.518 | 2.538 |                | 2.527                    | 2.527 | 2.530 | 2.530 | 2.533 |
| AO                   | 84.39 | 90.39 | ✓              | 87.39                    | 87.39 | 87.39 | 87.39 | 87.39 |
| AP                   | 0.261 | 0.266 | ✓              | 0.261                    | 0.261 | 0.261 | 0.261 | 0.261 |
| AQ                   | 0.053 | 0.073 | ✓              | 0.063                    | 0.063 | 0.063 | 0.063 | 0.063 |
| AR                   |       |       |                |                          |       |       |       |       |
| AS                   |       |       |                |                          |       |       |       |       |
| AT                   |       |       |                |                          |       |       |       |       |
| <b>Accept/Reject</b> |       |       |                |                          |       |       |       |       |

|                              |                                                                                     |              |          |
|------------------------------|-------------------------------------------------------------------------------------|--------------|----------|
| <b>Measured by:</b>          |  | <b>Date:</b> | 18-09-14 |
| <b>Audited by:</b>           | B.e                                                                                 | <b>Date:</b> | 18-09-18 |
| <b>Preliminary Approval:</b> |                                                                                     | <b>Date:</b> |          |

| Rev | Date     | Change               | Revised by | Approved                                                                              |
|-----|----------|----------------------|------------|---------------------------------------------------------------------------------------|
| A   | 02.12.13 | New Issue            | KJ/RF      |                                                                                       |
| B   | 07.05.08 | Dimension AP revised | KJ/JLM     |                                                                                       |
| C   | 08.04.21 | Reformat             | KJ/JLM     |                                                                                       |
| D   | 12.07.31 | Dwg Rev updated      | KJ         |  |



|                                    |  |                             |  |
|------------------------------------|--|-----------------------------|--|
| <b>DART AEROSPACE LTD</b>          |  | <b>Work Order:</b>          |  |
| <b>Description: Ø2.750 Support</b> |  | <b>Part Number: D2893-1</b> |  |
| <b>Inspection Dwg: D2893</b>       |  | <b>Rev: C</b>               |  |
|                                    |  | <b>Page 1 of 1</b>          |  |

### FIRST ARTICLE INSPECTION DIMENSION SHEET

|                      |       |       |                | Record Actual Dimensions |       |       |       |       |
|----------------------|-------|-------|----------------|--------------------------|-------|-------|-------|-------|
| Dim                  | Min   | Max   | Go/No Go Gauge | 16.1                     | 17.2  | 18.3  | 19.4  | 5.20  |
| <b>HAAS Section</b>  |       |       |                |                          |       |       |       |       |
| AA                   | 2.985 | 3.005 |                | 2.997                    | 2.997 | 2.997 | 2.995 | 2.995 |
| AB                   | 0.440 | 0.460 |                | 0.455                    | 0.455 | 0.455 | 0.455 | 0.455 |
| AC                   | 0.125 | 0.160 |                | 0.160                    | 0.160 | 0.160 | 0.160 | 0.160 |
| AD                   | 0.040 | 0.060 |                | 0.045                    | 0.045 | 0.045 | 0.050 | 0.047 |
| AE                   | 0.188 | 0.193 |                | 0.188                    | 0.188 | 0.188 | 0.188 | 0.188 |
| AF                   | 0.125 | 0.160 |                | 0.144                    | 0.144 | 0.144 | 0.145 | 0.147 |
| AG                   | 0.140 | 0.160 |                | 0.150                    | 0.150 | 0.150 | 0.150 | 0.150 |
| AH                   | 1.360 | 1.400 |                | 1.368                    | 1.380 | 1.383 | 1.380 | 1.373 |
| AI                   | 0.040 | 0.060 |                | 0.049                    | 0.050 | 0.048 | 0.053 | 0.053 |
| AJ                   | 1.190 | 1.230 |                | 1.208                    | 1.225 | 1.225 | 1.220 | 1.204 |
| AK                   | 0.010 | 0.020 |                | 0.010                    | 0.010 | 0.010 | 0.010 | 0.010 |
| AL                   | 0.053 | 0.073 |                | 0.063                    | 0.063 | 0.063 | 0.063 | 0.063 |
| AM                   | 0.240 | 0.260 |                | 0.250                    | 0.250 | 0.250 | 0.250 | 0.250 |
| AN                   | 2.518 | 2.538 |                | 2.534                    | 2.532 | 2.532 | 2.530 | 2.530 |
| AO                   | 84.39 | 90.39 |                | 87.39                    | 87.39 | 87.39 | 87.39 | 87.39 |
| AP                   | 0.261 | 0.266 |                | 0.261                    | 0.261 | 0.261 | 0.261 | 0.261 |
| AQ                   | 0.053 | 0.073 |                | 0.063                    | 0.063 | 0.063 | 0.063 | 0.063 |
| AR                   |       |       |                |                          |       |       |       |       |
| AS                   |       |       |                |                          |       |       |       |       |
| AT                   |       |       |                |                          |       |       |       |       |
| <b>Accept/Reject</b> |       |       |                |                          |       |       |       |       |

**Measured by:** SBL **Date:** 18/09/15

**Audited by:** A. **Date:** 18-09-18

**Preliminary Approval:** **Date:**

| Rev | Date     | Change               | Revised by | Approved |
|-----|----------|----------------------|------------|----------|
| A   | 02.12.13 | New Issue            | KJ/RF      |          |
| B   | 07.05.08 | Dimension AP revised | KJ/JLM     |          |
| C   | 08.04.21 | Reformat             | KJ/JLM     |          |
| D   | 12.07.31 | Dwg Rev updated      | KJ         |          |